**FIG.** 1

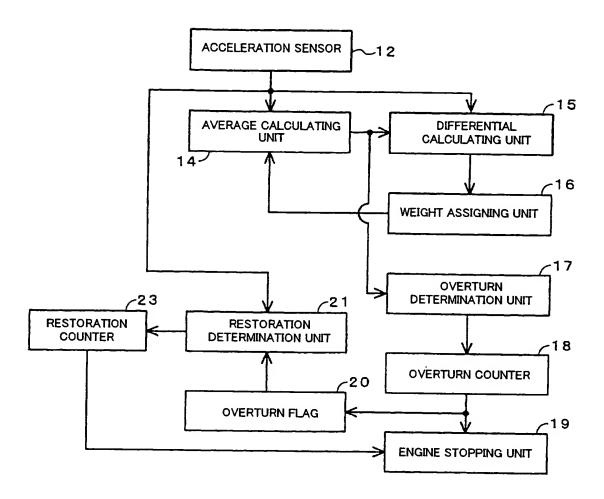


FIG. 2

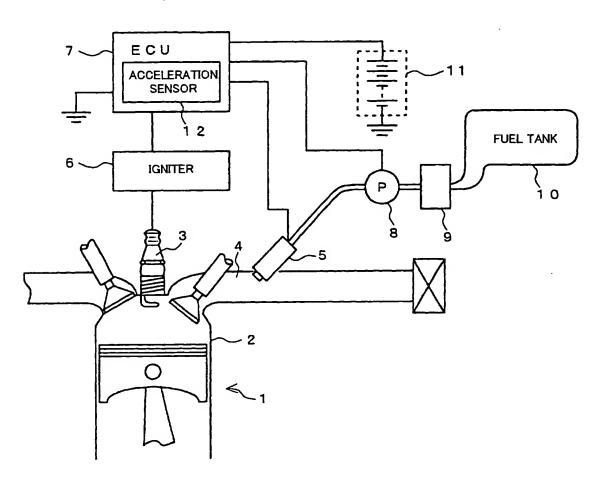
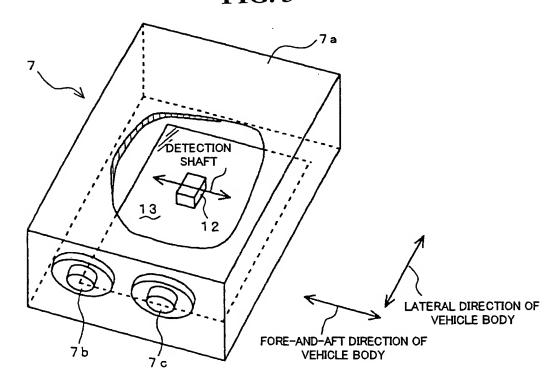


FIG. 3



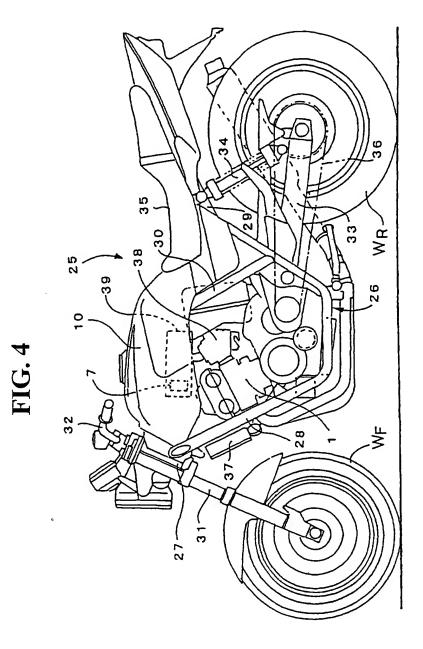


FIG. 5(c) (WHEN OVERTURNED) X COMPONENT Z COMPONENT 1 z COMPONENT FIG. 5(b) (WHEN TURNING) +SENSOR OUTPUT X COMPONENT SENSOR OUTPUT ----(ZERO)

FIG. 6 OVERTURN DETECTION **PROCEDURE** ~S1 SENSOR OUTPUT → DWN S2-OVERTURN FLAG = 1? ~S3 Ν ΔDWN← | DWNave-DWN | ΔDWN≦ΔDWNa Ν S6 **ΔDWN≦ΔDWNb** Ν ~S8 **DWNWT←C** ~S7 S5~ **DWNWT** ← A DWNWT-B ~S9 DWNave←(DWNave+DWN×DWNWT)/(1+DWNWT) ·S10 DWNave - STANDING UPRIGHT DWNø ≥ OVERTURN THRESHOLD ~S11 ~S16 **OVERTURN COUNTER: +1** OVERTURN COUNTER -- 0 ~S17 OVERTURN FLAG - 0 -S12 OVERTURN COUNTER ≥ VALUE OF OVERTURN COUNTER C1 ~S13 OVERTURN FLAG ← 1 S14 RESTORATION COUNTER ← 0 ~S15 **ENGINE STOP END** 

; •

**FIG.** 7 Fig. 6(S2) S18 DWN - STANDING UPRIGHT Ν DWN¢ < RESTORATION THRESHOLD Y **/S19 S24 RESTORATION COUNTER: +1** RESTORATION COUNTER ← 0 ∕S25 **S20** OVERTURN FLAG - 1 RESTORATION COUNTER ≥ PRESET COUNTER VALUE C2 ~S21 OVERTURN FLAG ← 0 **S22** OVERTURN COUNTER - 0 **~S23 ENGINE STOP RELEASED** 

**END**